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```
0001 0 ZTITLE 'EDT$HELP - process the HELP commands'
0002 0 MODULE EDT$HELP ( ! Process the HELP commands
0003 0 IDENT = 'V04-000' ! File: HELP.B32 Edit: JBS2015
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 Process the HELP commands.
0037 1
0038 1 ENVIRONMENT: VAX/VMS only
0039 1
0040 1 AUTHOR: Bob Kushlis, CREATION DATE: 13-OCT-1979
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 2-005 - Regularized headers and made PIC. JBS 24-Feb-1981
0045 1 2-006 - Fix module name. JBS 05-Mar-1981
0046 1 2-007 - Use new message codes. JBS 04-Aug-1981
0047 1 2-008 - Add new message for no help on a key. SMB 19-Nov-1981
0048 1 2-009 - Add new global for help file name and default. SMB 17-Dec-1981
0049 1 2-010 - Print a message on close errors. JBS 12-Apr-1982
0050 1 2-011 - Return a value from setting the help file name. JBS 04-May-1982
0051 1 2-012 - Change default processing for SET HELP. SMB 25-May-1982
0052 1 2-013 - Maximum terminal width for the librarian is 132. JBS 18-Aug-1982
0053 1 2-014 - Add some code for OUTPUT_HELP but comment it out until VMS
0054 1 gives more support (.i.e. SET HELP command, more parameters...). SMB 01-Mar-1983
0055 1 2-015 - Improve the appearance of the listing. JBS 14-Jun-1983
0056 1
0057 1 --
```



```
59 0058 1 %SBTTL 'Declarations'
60 0059 1
61 0060 1 : TABLE OF CONTENTS:
62 0061 1 :
63 0062 1
64 0063 1 REQUIRE 'EDTSRC:TRAROUNAM';
65 0502 1
66 0503 1 FORWARD ROUTINE
67 0504 1     EDT$$OUT_HLP : NOVALUE,
68 0505 1     GET_HELP,
69 0506 1     EDT$$SET_HLPFNAM;
70 0507 1
71 0508 1 :
72 0509 1 : INCLUDE FILES:
73 0510 1 :
74 0511 1
75 0512 1 REQUIRE 'EDTSRC:EDTREQ';
76 0647 1
77 0648 1 REQUIRE 'EDTSRC:SYSSYM';
78 0678 1
79 0679 1 :
80 0680 1 : MACROS:
81 0681 1 :
82 0682 1 :     NONE
83 0683 1 :
84 0684 1 : EQUATED SYMBOLS:
85 0685 1 :
86 0686 1 :     NONE
87 0687 1 :
88 0688 1 : OWN STORAGE:
89 0689 1 :
90 0690 1
91 0691 1 OWN
92 0692 1     KEY_COUNT,
93 0693 1     LINE_HELP;
94 0694 1
95 0695 1
96 0696 1 :
97 0697 1 : EXTERNAL REFERENCES:
98 0698 1 :
99 0699 1
100 0700 1 EXTERNAL ROUTINE
101 0701 1     EDT$$FIOPN_ERR,
102 0702 1     EDT$$CNV_UPC,
103 0703 1     EDT$$OUT_FMTBUF,
104 0704 1     EDT$$FMT_STR,
105 0705 1     EDT$$FMT_LIT,
106 0706 1     EDT$$FMT_CRLF,
107 0707 1     EDT$$FMT_MSG,
108 0708 1     EDT$$MSG_TOSTR,
109 0709 1     LBR$INI_CONTROL,
110 0710 1     LBR$OPEN,
111 0711 1     LIB$GET_INPUT,
112 0712 1     LIB$PUT_OUTPUT,
113 0713 1     LBR$OUTPUT_HELP,
114 0714 1     LBR$GET_HELP,
115 0715 1     LBR$CLOSE;
```

! Print help using LBR\$GET_HELP

! Count of the key number we're on
! 1= use line mode help format

! 0= use keypad mode help format

EDT\$HELP
V04-000

EDT\$HELP - process the HELP commands
Declarations

8 8
16-Sep-1984 00:31:46
14-Sep-1984 12:23:16

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]HELP.B32;1

Page 3
(2)

```

: 116      0716 1
: 117      0717 1 EXTERNAL
: 118      0718 1      EDT$SZ_LBR_INDEX,      ! LBR control table index.
: 119      0719 1      EDT$ST_HDEF_NAM,        ! Help file default specs
: 120      0720 1      EDT$ST_HDEF_FILE,       ! Help file default file name
: 121      0721 1      EDT$ST_HELP_NAM,
: 122      0722 1      EDT$SG_HELP_NAMLEN,
: 123      0723 1      EDT$SG_HELP_SET,
: 124      0724 1      EDT$SA_FMT_CUR,
: 125      0725 1      EDT$ST_FMT_BUF,
: 126      0726 1      EDT$SG_TI_QID;
: 127      0727 1
: 128      0728 1 MESSAGES ((NOHLPVL, HLPFILCLO, FILNAM, NOKEYHLP, NOHLPINI, INVSTR));
```

```
130 0729 1 %SBTTL 'EDT$$OUT_HLP - HELP command'
131 0730 1
132 0731 1 GLOBAL ROUTINE EDT$$OUT_HLP (
133 0732 1     STRING,
134 0733 1     LENG,
135 0734 1     ADDITIONAL
136 0735 1     ) : NOVALUE =
137 0736 1
138 0737 1 ++
139 0738 1 FUNCTIONAL DESCRIPTION:
140 0739 1
141 0740 1     Process the HELP commands.
142 0741 1
143 0742 1 FORMAL PARAMETERS:
144 0743 1
145 0744 1     STRING           Address of the text string that contains the HELP arguments
146 0745 1     LENG             Length of that string
147 0746 1     ADDITIONAL       ! = print key names and additional help
148 0747 1
149 0748 1 IMPLICIT INPUTS:
150 0749 1
151 0750 1     EDT$$G_HELP_SET
152 0751 1
153 0752 1 IMPLICIT OUTPUTS:
154 0753 1
155 0754 1     NONE
156 0755 1
157 0756 1 ROUTINE VALUE:
158 0757 1
159 0758 1     NONE
160 0759 1
161 0760 1 SIDE EFFECTS:
162 0761 1
163 0762 1     Calls EDT$$SET_HLPFNAM if it has not already been called.
164 0763 1
165 0764 1 --
166 0765 1
167 0766 1
168 0767 1
169 0768 2 BEGIN
170 0769 2
171 0770 2 LOCAL
172 0771 2     HELP_DESC : BLOCK [8, BYTE]           ! String descriptor for help file name
173 0772 2     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
174 0773 2               [DSC$B_CLASS] = DSC$K_CLASS_S),
175 0774 2     LINE_DESC : BLOCK [8, BYTE]           ! Output string descriptor for LBR$OUTPUT_HELP
176 0775 2     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
177 0776 2               [DSC$B_CLASS] = DSC$K_CLASS_S),
178 0777 2     HELP_FLAGS,
179 0778 2     OPEN_STATUS,
180 0779 2     LENGTH_POINTER,
181 0780 2     POINTER,
182 0781 2     E_POINT,
183 0782 2     TOPICS : BLOCKVECTOR [5, 8, BYTE],    ! Topic descriptors.
184 0783 2     GET_HELP_ARGS : VECTOR [10],
185 0784 2     NUM_TOPICS,
186 0785 2     GET_HELP_STATUS;
```



```
187 0786 2
188 0787 2
189 0788 2 + If we are using line mode help format then we want additional information
190 0789 2 to be printed. If we are using keypad help format then we don't want the
191 0790 2 additional topics to be displayed.
192 0791 2
193 0792 2 LINE_HELP = .ADDITIONAL;
194 0793 2
195 0794 2 + The following will have code to be used for LBR$OUTPUT_HELP turned off by
196 0795 2 use of comments until VMS implements the SET HELP/PROMPT command.
197 0796 2
198 0797 2 IF (.LINE_HELP EQL 0)
199 0798 2 THEN
200 0799 2 BEGIN
201 0800 2
202 0801 2 + We cannot use LBR$OUTPUT_HELP so we must initialize the file, open it
203 0802 2 and parse the help topics to prepare them for LBR$GET_HELP.
204 0803 2
205 0804 2 +
206 0805 2 If EDT$$G_HELP SET then the help file has already been opened, so
207 0806 2 set OPEN_STATUS
208 0807 2
209 0808 2
210 0809 2 IF ( NOT .EDT$$G_HELP_SET)
211 0810 2 THEN
212 0811 2 OPEN_STATUS = EDT$$SET_HLPFNAM (CH$PTR (EDT$$T_HELP_NAM),
213 0812 2 .EDT$$G_HELP_NAMLEN)
214 0813 2
215 0814 2 ELSE
216 0815 2 OPEN_STATUS = 1;
217 0816 2
218 0817 2 IF (.OPEN_STATUS)
219 0818 2 THEN
220 0819 2 BEGIN
221 0820 2 + Isolate all the topic strings in the command.
222 0821 2
223 0822 2 POINTER = .STRING;
224 0823 2 E_POINT = CH$PTR (.POINTER, .LENG);
225 0824 2 EDT$$CNV_UPC (.POINTER, .LENG);
226 0825 2
227 0826 2 INCR I FROM 0 TO 4 DO
228 0827 2 BEGIN
229 0828 2 TOPICS [.I, DSC$W_LENGTH] = 0;
230 0829 2 TOPICS [.I, DSC$B_DTYPE] = DSC$K_DTYPE_T;
231 0830 2 TOPICS [.I, DSC$B_CLASS] = DSC$K_CLASS_S;
232 0831 2 TOPICS [.I, DSC$A_POINTER] = 0;
233 0832 2 END;
234 0833 2
235 0834 2 INCR I FROM 0 TO 4 DO
236 0835 2 BEGIN
237 0836 2
238 0837 2 WHILE ((CH$DIFF (.POINTER, .E_POINT) LSS 0) AND !
239 0838 2 (CH$RCHAR (.POINTER) EQL %C' ') OR !
240 0839 2 (CH$RCHAR (.POINTER) EQL ASC_K_TAB)) DO
241 0840 2 POINTER = CH$PLUS (.POINTER, -1);
242 0841 2
243 0842 2 IF CH$DIFF (.POINTER, .E_POINT) EQL 0
```

```
244 0843 4 THEN
245 0844 5 BEGIN
246 0845 5 NUM_TOPICS = .1;
247 0846 5 EXITLOOP;
248 0847 4 END;
249 0848 4
250 0849 4 TOPICS [.1, DSC$A_POINTER] = .POINTER;
251 0850 4
252 0851 4 IF (CH$RCHAR (.POINTER) EQL %C'/' ) THEN POINTER = CH$PLUS (.POINTER, 1);
253 0852 4
254 0853 5 WHILE ((CH$DIFF (.POINTER, .E POINT) LSS 0) AND !
255 0854 5 (CH$RCHAR (.POINTER) NEQ %C' ') AND !
256 0855 5 (CH$RCHAR (.POINTER) NEQ ASC K TAB) AND !
257 0856 4 (CH$RCHAR (.POINTER) NEQ %C'7') DO
258 0857 4 POINTER = CH$PLUS (.POINTER, 1);
259 0858 4
260 0859 4 TOPICS [.1, DSC$W_LENGTH] = CH$DIFF (.POINTER, .TOPICS [.1, DSC$A_POINTER]);
261 0860 4 END;
262 0861 4
263 0862 4 +
264 0863 4 - If no topics are found, then default to help.
265 0864 4
266 0865 4
267 0866 4 IF (.NUM_TOPICS EQL 0)
268 0867 4 THEN
269 0868 4 BEGIN
270 0869 4 NUM_TOPICS = 1;
271 0870 4 TOPICS [0, DSC$W_LENGTH] = 4;
272 0871 4 TOPICS [0, DSC$A_POINTER] = UPLIT BYTE('HELP');
273 0872 4 END;
274 0873 4
275 0874 4 +
276 0875 4 - Now, ask for help!
277 0876 4
278 0877 4 KEY_COUNT = 0;
279 0878 4 GET_HELP_STATUS = LBR$GET_HELP (EDT$$Z_LBR_INDEX, %REF (MIN (132, EDT$$G_TI_WID)), GET_HELP,
280 0879 4 LINE_HELP, TOPICS [0, 0, 0, 0, 0], TOPICS [1, 0, 0, 0, 0], TOPICS [2, 0, 0, 0, 0], -!
281 0880 4 TOPICS [3, 0, 0, 0, 0], TOPICS [4, 0, 0, 0, 0]);
282 0881 4
283 0882 4 IF ( NOT .GET_HELP_STATUS) THEN SIGNAL_STOP (.GET_HELP_STATUS);
284 0883 4
285 0884 4 +
286 0885 4 - And output any remaining characters.
287 0886 4
288 0887 4
289 0888 4 IF (.EDT$$A_FMT_CUR NEQA EDT$$T_FMT_BUF) THEN EDT$$OUT_FMTBUF ();
290 0889 4
291 0890 4 END;
292 0891 4
293 0892 4 +
294 0893 4 - Code specific to the use of LBR$OUTPUT_HELP. WE don't have to parse
295 0894 4 the help line in this case so we skip the above code. Note also that
296 0895 4 LBR$OUTPUT_HELP does its own initialization and opening of the help
297 0896 4 file.
298 0897 4
299 0898 4 END
300 0899 4 ELSE
```



```
0900 2 BEGIN
0901 2 HELP_FLAGS = HLP$M_PROCESS + HLP$M_GROUP + HLP$M_SYSTEM; ! Use HLP$M_PROMPT for ?[Sub]Topic promptin
0902 2 HELP_DESC [DSC$W_LENGTH] = .EDT$$G_HELP_NAMLEN;
0903 2 HELP_DESC [DSC$A_POINTER] = (CH$PTR(EDT$$T_HELP_NAM));
0904 2 POINTER = .STRING;
0905 2 LINE_DESC [DSC$A_POINTER] = .POINTER;
0906 2 LINE_DESC [DSC$W_LENGTH] = .LENG;
0907 2
0908 2 For the call to LBR$OUTPUT_HELP we may want to use our own output routine
0909 2 in place of LIB$PUT_OUTPUT, although this seems to be adequate when tested.
0910 2
0911 2 If the prompting bit is on, then we must supply our own input routine in place
0912 2 of LIB$GET_INPUT because prompt responses may be coming from a journal or
0913 2 initialization file. We cannot turn this bit on until VMS provides a SET
0914 2 HELP/[NO]PROMPT command for compatibility reasons.
0915 2
0916 2 Without HLP$M_PROMPT set, the only thing we buy with this code is the ability
0917 2 to say 'HELP @newhelpfile command'. Without resorting to LBR$OUTPUT_HELP you
0918 2 could get help from another help file by simply typing 'SET HELP newhelpfile
0919 2 and then 'HELP command'. When you want to set help back to the default
0920 2 help file you simply type 'SET HELP'.
0921 2
0922 2
0923 2 GET_HELP_STATUS = LBR$OUTPUT_HELP (LIB$PUT_OUTPUT, %REF ((MIN (132, .EDT$$G_TI_WID))), LINE_DESC, HE
0924 2 HELP_FLAGS, LIB$GET_INPUT);
0925 2
0926 2 IF ( NOT .GET_HELP_STATUS) THEN SIGNAL_STOP (.GET_HELP_STATUS);
0927 2
0928 2
0929 2 IF (.EDT$$A_FMT_CUR NEQA EDT$$T_FMT_BUF) THEN EDT$$OUT_FMTBUF ();
0930 2
0931 2 END;
0932 1
END; ! of routine EDT$$OUT_HLP
```

```
.TITLE EDT$HELP EDT$HELP - process the HELP commands
.IDENT \V04-000\
```

```
.PSECT _EDT$DATA,NOEXE, PIC,2
```

```
00000 KEY_COUNT:
```

```
.BLKB 4
```

```
00004 LINE_HELP:
```

```
.BLKB 4
```

```
.PSECT _EDT$CODE,NOWRT, SHR, PIC,2
```

```
50 4C 45 48 00000 P.AAA: .ASCII \HELP\
```

```
.EXTRN EDT$$FIOPN_ERR, EDT$$CNV_UPC
```

```
.EXTRN EDT$$OUT_FMTBUF
```

```
.EXTRN EDT$$FMT_STR, EDT$$FMT_LIT
```

```
.EXTRN EDT$$FMT_CRLF, EDT$$FMT_MSG
```

```
.EXTRN EDT$$MSG_TOSTR, LBR$INI_CONTROL
```

```
.EXTRN LBR$OPEN, LIB$GET_INPUT
```

```
.EXTRN LIB$PUT_OUTPUT, LBR$OUTPUT_HELP
```

```
.EXTRN LBR$GET_HELP, LBR$CLOSE
```

```

. EXTRN      EDT$$Z-LBR_INDEX
. EXTRN      EDT$$T-HDEF_NAM
. EXTRN      EDT$$T-HDEF_FILE
. EXTRN      EDT$$T-HELP_NAM
. EXTRN      EDT$$G-HELP_NAMLEN
. EXTRN      EDT$$G-HELP_SET
. EXTRN      EDT$$A-FMT_CUR, EDT$$T-FMT_BUF
. EXTRN      EDT$$G-TI_QID, EDT$ NORLPAVL
. EXTRN      EDT$ HCPFILCLO, EDT$ FILNAM
. EXTRN      EDT$-NOKEYHLP, EDT$-NOHLPINI
. EXTRN      EDT$-INVSTR

```

Address	Hex	Label	Op	Op2	Op3	Op4	Op5	Op6	Op7	Op8	Op9	Op10	Op11	Op12	Op13	Op14	Op15	Op16	Op17	Op18	Op19	Op20	Op21	Op22	Op23	Op24	Op25	Op26	Op27	Op28	Op29	Op30	Op31	Op32	Op33	Op34	Op35	Op36	Op37	Op38	Op39	Op40	Op41	Op42	Op43	Op44	Op45	Op46	Op47	Op48	Op49	Op50	Op51	Op52	Op53	Op54	Op55	Op56	Op57	Op58	Op59	Op60	Op61	Op62	Op63	Op64	Op65	Op66	Op67	Op68	Op69	Op70	Op71	Op72	Op73	Op74	Op75	Op76	Op77	Op78	Op79	Op80	Op81	Op82	Op83	Op84	Op85	Op86	Op87	Op88	Op89	Op90	Op91	Op92	Op93	Op94	Op95	Op96	Op97	Op98	Op99	Op100	Op101	Op102	Op103	Op104	Op105	Op106	Op107	Op108	Op109	Op110	Op111	Op112	Op113	Op114	Op115	Op116	Op117	Op118	Op119	Op120	Op121	Op122	Op123	Op124	Op125	Op126	Op127	Op128	Op129	Op130	Op131	Op132	Op133	Op134	Op135	Op136	Op137	Op138	Op139	Op140	Op141	Op142	Op143	Op144	Op145	Op146	Op147	Op148	Op149	Op150	Op151	Op152	Op153	Op154	Op155	Op156	Op157	Op158	Op159	Op160	Op161	Op162	Op163	Op164	Op165	Op166	Op167	Op168	Op169	Op170	Op171	Op172	Op173	Op174	Op175	Op176	Op177	Op178	Op179	Op180	Op181	Op182	Op183	Op184	Op185	Op186	Op187	Op188	Op189	Op190	Op191	Op192	Op193	Op194	Op195	Op196	Op197	Op198	Op199	Op200	Op201	Op202	Op203	Op204	Op205	Op206	Op207	Op208	Op209	Op210	Op211	Op212	Op213	Op214	Op215	Op216	Op217	Op218	Op219	Op220	Op221	Op222	Op223	Op224	Op225	Op226	Op227	Op228	Op229	Op230	Op231	Op232	Op233	Op234	Op235	Op236	Op237	Op238	Op239	Op240	Op241	Op242	Op243	Op244	Op245	Op246	Op247	Op248	Op249	Op250	Op251	Op252	Op253	Op254	Op255	Op256	Op257	Op258	Op259	Op260	Op261	Op262	Op263	Op264	Op265	Op266	Op267	Op268	Op269	Op270	Op271	Op272	Op273	Op274	Op275	Op276	Op277	Op278	Op279	Op280	Op281	Op282	Op283	Op284	Op285	Op286	Op287	Op288	Op289	Op290	Op291	Op292	Op293	Op294	Op295	Op296	Op297	Op298	Op299	Op300	Op301	Op302	Op303	Op304	Op305	Op306	Op307	Op308	Op309	Op310	Op311	Op312	Op313	Op314	Op315	Op316	Op317	Op318	Op319	Op320	Op321	Op322	Op323	Op324	Op325	Op326	Op327	Op328	Op329	Op330	Op331	Op332	Op333	Op334	Op335	Op336	Op337	Op338	Op339	Op340	Op341	Op342	Op343	Op344	Op345	Op346	Op347	Op348	Op349	Op350	Op351	Op352	Op353	Op354	Op355	Op356	Op357	Op358	Op359	Op360	Op361	Op362	Op363	Op364	Op365	Op366	Op367	Op368	Op369	Op370	Op371	Op372	Op373	Op374	Op375	Op376	Op377	Op378	Op379	Op380	Op381	Op382	Op383	Op384	Op385	Op386	Op387	Op388	Op389	Op390	Op391	Op392	Op393	Op394	Op395	Op396	Op397	Op398	Op399	Op400	Op401	Op402	Op403	Op404	Op405	Op406	Op407	Op408	Op409	Op410	Op411	Op412	Op413	Op414	Op415	Op416	Op417	
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9E	52	D0	000A0	MOVL	POINTER, a(SP)+		
2F	62	91	000A3	CMPB	(POINTER), #47	0851	
	02	12	000A6	BNEQ	11\$		
53	52	D6	000A8	10\$: INCL	POINTER		
	52	D1	000AA	11\$: CMPL	POINTER, E_POINT	0853	
20	0F	18	000AD	BGEQ	12\$		
	62	91	000AF	CMPB	(POINTER), #32	0854	
09	0A	13	000B2	BEQL	12\$		
	62	91	000B4	CMPB	(POINTER), #9	0855	
2F	05	13	000B7	BEQL	12\$		
	62	91	000B9	CMPB	(POINTER), #47	0856	
	EA	12	000BC	BNEQ	10\$		
	2C AE40	7F	000BE	12\$: PUSHAB	TOPICS[I]	0859	
	34 AE40	7F	000C2	PUSHAB	TOPICS+4[I]		
9E	52	9E	A3 000C6	SUBW3	a(SP)+, POINTER, a(SP)+		
B1	50	04	F3 000CA	AOBLEQ	#4, 1, 5\$	0834	
		51	D5 000CE	13\$: TSTL	NUM_TOPICS	0866	
		0D	12 000D0	BNEQ	14\$		
	51	01	D0 000D2	MOVL	#1, NUM_TOPICS	0869	
2C	AE	04	B0 000D5	MOVW	#4, TOPICS	0870	
30	AE	CF	9E 000D9	MOVAB	P.AAA, TOPICS+4	0871	
	FF1F	A4	D4 000DF	14\$: CLRL	KEY COUNT	0877	
	FC	AE	9F 000E2	PUSHAB	TOPICS+32	0880	
	4C	AE	9F 000E5	PUSHAB	TOPICS+24		
	48	AE	9F 000E8	PUSHAB	TOPICS+16	0879	
	44	AE	9F 000EB	PUSHAB	TOPICS+8		
	40	AE	9F 000EE	PUSHAB	TOPICS		
	3C	AE	9F 000F1	PUSHL	R4	0878	
	0000V	CF	9F 000F3	PUSHAB	GET_HELP		
1C	AE	00	D0 000F7	MOVL	EDT\$\$G_T1_WID, 28(SP)		
00000084	8F	1C	AE	D1 000FF	CMPL	28(SP), #T32	
		05	15 00107	BLEQ	15\$		
1C	AE	8F	9A 00109	MOVZBL	#132, 28(SP)		
		1C	AE	9F 0010E	15\$: PUSHAB	28(SP)	
	00000000G	00	9F 00111	PUSHAB	EDT\$\$Z_LBR_INDEX		
00000000G	00	09	FB 00117	CALLS	#9, LBR\$GET_HELP	0880	
	09	50	E8 0011E	BLBS	GET_HELP_STATUS, 16\$	0882	
		50	DD 00121	PUSHL	GET_HELP_STATUS		
00000000G	00	01	FB 00123	CALLS	#1, LIB\$STOP		
	50 00000000G	00	9E 0012A	16\$: MOVAB	EDT\$\$T_FMT_BUF, R0	0888	
	50 00000000G	00	D1 00131	CMPL	EDT\$\$A_FMT_CUR, R0		
		07	13 00138	BEQL	17\$		
00000000G	00	00	FB 0013A	CALLS	#0, EDT\$\$OUT_FMTBUF		
		04	00141	17\$: RET		0932	

; Routine Size: 322 bytes, Routine Base: _EDT\$CODE + 0004

; 334 0933 1


```
0934 1 %SBTTL 'GET_HELP - output HELP text'
0935 1 ROUTINE GET_HELP (
0936 1     DESC,
0937 1     FLAGS,
0938 1     ADDITIONAL,
0939 1     CUR_KEY_LEVEL
0940 1 ) =
0941 1
0942 1 !+
0943 1 FUNCTIONAL DESCRIPTION:
0944 1
0945 1     Output a line of help text. This routine is called from LBR$HELP.
0946 1
0947 1 FORMAL PARAMETERS:
0948 1
0949 1     DESC           The text to be output
0950 1
0951 1     FLAGS          Flag bits
0952 1
0953 1     ADDITIONAL     Data argument to LBR$HELP
0954 1
0955 1     CUR_KEY_LEVEL  Current key level
0956 1
0957 1 IMPLICIT INPUTS:
0958 1
0959 1     NONE
0960 1
0961 1 IMPLICIT OUTPUTS:
0962 1
0963 1     NONE
0964 1
0965 1 ROUTINE VALUE:
0966 1
0967 1     1
0968 1
0969 1 SIDE EFFECTS:
0970 1
0971 1     Calls EDT$$FMT_LIT and EDT$$FMT_CRLF .
0972 1
0973 1 --
0974 1
0975 1 BEGIN
0976 1
0977 1 MAP
0978 1     DESC : REF BLOCK [8, BYTE];
0979 1
0980 1 IF ((..ADDITIONAL NEQ 0) OR (..FLAGS EQL 0))
0981 1 THEN
0982 1     BEGIN
0983 1         EDT$$FMT_LIT (.DESC [DSC$A_POINTER], .DESC [DSC$W_LENGTH]);
0984 1         EDT$$FMT_CRLF ();
0985 1     END
0986 1 ELSE
0987 1
0988 1     IF (..FLAGS EQL HLP$M_NOHLPTXT)
0989 1     THEN
0990 1 !+
```

```
0991 2 ! So the message won't get printed twice
0992 !-
0993
0994 IF (.KEY_COUNT EQL 0)
0995 THEN
0996 BEGIN
0997 EDT$$MSG_TOSTR (EDT$_NOKEYHLP);
0998 EDT$$FMT_CRLF ();
0999 KEY_COUNT = .KEY_COUNT + 1;
1000 END;
1001
1002 RETURN (1);
1003 END;
```

! of routine GET_HELP

```
000C 00000 GET_HELP:
53 00000000' EF 9E 00002 .WORD Save R2,R3
52 00000000G 00 9E 00009 MOVAB KEY_COUNT, R3
OC BC D5 00010 MOVAB EDT$$FMT_CRLF, R2
05 12 00013 TSTL @ADDITIONAL
08 BC D5 00015 BNEQ 1$
16 12 00018 TSTL @FLAGS
04 AC D0 0001A BNEQ 2$
7E 60 3C 0001E MOVZWL DESC, R0
04 A0 DD 00021 (R0), -(SP)
00 02 FB 00024 PUSH 4(R0)
62 00 FB 0002B CALLS #2, EDT$$FMT_LIT
01 08 BC D1 00030 CALLS #0, EDT$$FMT_CRLF
16 12 00034 BRB 3$
63 D5 00036 CMPL @FLAGS, #1
12 12 00038 BNEQ 3$
00000000G 8F DD 0003A TSTL KEY_COUNT
00 01 FB 00040 BNEQ 3$
62 00 FB 00047 PUSHL #EDT$_NOKEYHLP
50 01 D0 0004C CALLS #1, EDT$$MSG_TOSTR
04 0004F CALLS #0, EDT$$FMT_CRLF
INCL KEY_COUNT
3$ MOVZWL #1, R0
RET
```

; Routine Size: 80 bytes, Routine Base: _EDT\$CODE + 0146

```
407 1004 1 $SBTTL 'EDT$$SET_HLPFNAM - set help library name'
408 1005 1
409 1006 1 GLOBAL ROUTINE EDT$$SET_HLPFNAM (
410 1007 1     ADDR,
411 1008 1     LEN
412 1009 1 ) =
413 1010 1
414 1011 1 ++
415 1012 1 FUNCTIONAL DESCRIPTION:
416 1013 1
417 1014 1     Set the name of the help library. Attempt an open to force a
418 1015 1     parse of the name and return an error if no help available.
419 1016 1
420 1017 1 FORMAL PARAMETERS:
421 1018 1
422 1019 1     ADDR                Address of new HELP library name
423 1020 1
424 1021 1     LEN                Length of that name
425 1022 1
426 1023 1 IMPLICIT INPUTS:
427 1024 1
428 1025 1     EDT$ST_HELP_NAM
429 1026 1     EDT$SG_HELP_NAMLEN
430 1027 1     EDT$SG_HELP_SET
431 1028 1     EDT$SZ_LBR_INDEX
432 1029 1
433 1030 1 IMPLICIT OUTPUTS:
434 1031 1
435 1032 1     EDT$ST_HELP_NAM
436 1033 1     EDT$SG_HELP_NAMLEN
437 1034 1     EDT$SG_HELP_SET
438 1035 1     EDT$SZ_LBR_INDEX
439 1036 1
440 1037 1 ROUTINE VALUE:
441 1038 1
442 1039 1     1 = success
443 1040 1     0 = invalid string
444 1041 1
445 1042 1 SIZE EFFECTS:
446 1043 1
447 1044 1     NONE
448 1045 1
449 1046 1 --
450 1047 1
451 1048 1 BEGIN
452 1049 1
453 1050 1 LOCAL
454 1051 1     RESULT_LEN,
455 1052 1     PARSE_RNAM : BLOCK [NAM$C MAXRSS, BYTE],
456 1053 1     HELP_DESC : BLOCK [8, BYTE]
457 1054 1     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
458 1055 1             [DSC$B_CLASS] = DSC$K_CLASS_S)
459 1056 1     RESULT_DESC : BLOCK [8, BYTE]
460 1057 1     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
461 1058 1             [DSC$B_CLASS] = DSC$K_CLASS_S)
462 1059 1     HELP_DEFAULT_FILE_NAME_DESC : BLOCK [8, BYTE]
463 1060 1     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
```

```
! Set help library name
! Address of new HELP library name
! Length of that name
```

```
! Length of resultant name
! Help file name after OPEN
! Descriptor for help name
! Resultant help file name
! Help default file name
```



```
464 1061 2          [DSC$B_CLASS] = DSC$K_CLASS_S);
465 1062
466 1063      IF (.LEN GTR NAM$C_MAXRSS)
467 1064      THEN
468 1065          BEGIN
469 1066              EDT$$FMT MSG (EDT$_INVSTR);
470 1067              RETURN (0);          ! File name too long
471 1068          END;
472 1069
473 1070      IF (.LEN NEQ 0)
474 1071      THEN
475 1072          BEGIN
476 1073              HELP_DESC [DSC$W_LENGTH] = .LEN;
477 1074              HELP_DESC [DSC$A_POINTER] = CH$PTR (.ADDR);
478 1075          END
479 1076      ELSE
480 1077          +
481 1078          - No file name was given, so restore it to the default help file
482 1079
483 1080          BEGIN
484 1081              HELP_DESC [DSC$W_LENGTH] = CH$RCHAR (EDT$$HDEF_FILE);
485 1082              HELP_DESC [DSC$A_POINTER] = CH$PTR (EDT$$HDEF_FILE, 1);
486 1083          END;
487 1084
488 1085      IF (.EDT$$G_HELP_SET)
489 1086      THEN
490 1087          +
491 1088          - Close the old help library because we are opening a new one
492 1089
493 1090
494 1091      IF ( NOT LBR$CLOSE (EDT$$Z_LBR_INDEX))
495 1092      THEN
496 1093          BEGIN
497 1094              EDT$$FMT MSG (EDT$_HLPFILCLO);
498 1095              RETURN (0)
499 1096          END;
500 1097
501 1098          +
502 1099          - Attempt to initialize the help library. Do this whenever Help is SET.
503 1100
504 1101
505 1102      IF ( NOT LBR$INI_CONTROL (EDT$$Z_LBR_INDEX, %REF (LBR$C_READ), %REF (LBR$C_TYP_HLP)))
506 1103      THEN
507 1104          BEGIN
508 1105              EDT$$FMT MSG (EDT$_NOHLPINI);
509 1106              RETURN (0);
510 1107          END;
511 1108
512 1109          +
513 1110          - Set up the default help file name descriptor
514 1111
515 1112          HELP_DEFAULT_FILE_NAME_DESC [DSC$W_LENGTH] = CH$RCHAR (EDT$$HDEF_NAM);
516 1113          HELP_DEFAULT_FILE_NAME_DESC [DSC$A_POINTER] = CH$PTR (EDT$$HDEF_NAM, 1);
517 1114
518 1115          +
519 1116          - Set up the resultant help file name descriptor
520 1117          RESULT_DESC [DSC$W_LENGTH] = NAM$C_MAXRSS;
```

```
1118 2      RESULT_DESC [DSC$A_POINTER] = CH$PTR (PARSE_HNAM);
1119 2      RESULT_LEN = 0;
1120 2      !+
1121 2      !- Attempt to open the help library.
1122 2
1123 2      IF ( NOT LBR$OPEN (EDT$$Z_LBR_INDEX, HELP_DESC, 0, HELP_DEFAULT_FILE_NAME_DESC, 0, RESULT_DESC,
1124 2      RESULT_LEN))
1125 2      THEN
1126 2      BEGIN
1127 2      EDT$$G_HELP_SET = 0;                                ! Next time re-open the old help file
1128 2      EDT$$FMT_MSG (EDT$ NOHLPVL);
1129 2      EDT$$MSG_TOSTR (EDT$_FILNAM);
1130 2
1131 2      IF (.RESULT_LEN EQL 0)
1132 2      THEN
1133 2      EDT$$FMT_STR (.HELP_DESC [DSC$A_POINTER], .HELP_DESC [DSC$W_LENGTH])
1134 2      ELSE
1135 2      EDT$$FMT_STR (.RESULT_DESC [DSC$A_POINTER], .RESULT_LEN);
1136 2
1137 2      EDT$$OUT_FMTBUF ();
1138 2      RETURN (0);
1139 2      END;
1140 2
1141 2      EDT$$G_HELP_SET = 1;                                ! Means that SET_HELP was successful in opening a help file
1142 2      !+
1143 2      !- Store the new Help File name and name length in the globals
1144 2
1145 2      EDT$$CPY_MEM (.RESULT_LEN, CH$PTR (PARSE_HNAM), CH$PTR (EDT$$T_HELP_NAM));
1146 2      EDT$$G_HELP_NAMLEN = .RESULT_LEN;
1147 2      RETURN (1);
1148 2
1149 1      END;                                ! of routine EDT$$SET_HLPFNAM
```

			01FC 00000	.ENTRY	EDT\$\$SET_HLPFNAM, Save R2,R3,R4,R5,R6,R7,R8	1006
	58	00000000G	00 9E 00002	MOVAB	EDT\$\$FMT_MSG, R8	
	57	00000000G	00 9E 00009	MOVAB	EDT\$\$Z_LBR_INDEX, R7	
	56	00000000G	00 9E 00010	MOVAB	EDT\$\$G_HELP_SET, R6	
	5E	FEDC	CE 9E 00017	MOVAB	-292(SP), SP	
1C	AE	010E0000	8F D0 0001C	MOVL	#17694720, HELP_DESC	1055
		20	AE D4 00024	CLRL	HELP_DESC+4	
14	AE	010E0000	8F D0 00027	MOVL	#17694720, RESULT_DESC	1058
		18	AE D4 0002F	CLRL	RESULT_DESC+4	
0C	AE	010E0000	8F D0 00032	MOVL	#17694720, HELP_DEFAULT_FILE_NAME_DESC	1061
		10	AE D4 0003A	CLRL	HELP_DEFAULT_FILE_NAME_DESC+4	
000000FF	8F	08	AC D1 0003D	CMPL	LEN, #255	1063
			08 15 00045	BLEQ	1\$	
		00000000G	8F DD 00047	PUSHL	#EDT\$_INVSTR	1066
			58 11 0004D	BRB	5\$	
		08	AC D5 0004F	TSTL	LEN	1070
			0C 13 00052	BEQL	2\$	
1C	AE	08	AC B0 00054	MOVW	LEN, HELP_DESC	1073
20	AE	04	AC D0 00059	MOVL	ADDR, HELP_DESC+4	1074
			10 11 0005E	BRB	3\$	1070

1C	AE	00000000G	00	9B	00060	2\$:	MOVZBW	EDT\$ST_HDEF_FILE, HELP_DESC	1081	
20	AE	00000000G	00	9E	00068		MOVAB	EDT\$ST_HDEF_FILE+1, HELP_DESC+4	1082	
14			66	E9	00070	3\$:	BLBC	EDT\$SG_HELP_SET, 4\$	1085	
			57	DD	00073		PUSHL	R7	1091	
00000000G	00		01	FB	00075		CALLS	#1, LBR\$CLOSE		
	08		50	E8	0007C		BLBS	R0, 4\$		
		00000000G	8F	DD	0007F		PUSHL	#EDT\$_HLPFILCLO	1094	
			20	11	00085		BRB	5\$		
04	AE		03	D0	00087	4\$:	MOVL	#3, 4(SP)	1102	
		04	AE	9F	0008B		PUSHAB	4(SP)		
04	AE		01	D0	0008E		MOVL	#1, 4(SP)		
		04	AE	9F	00092		PUSHAB	4(SP)		
			57	DD	00095		PUSHL	R7		
00000000G	00		03	FB	00097		CALLS	#3, LBR\$INI_CONTROL		
	08		50	E8	0009E		BLBS	R0, 6\$		
		00000000G	8F	DD	000A1		PUSHL	#EDT\$ NOHLPINI	1105	
	68		01	FB	000A7	5\$:	CALLS	#1, EDT\$FMT_MSG		
			73	11	000AA		BRB	9\$	1106	
0C	AE	00000000G	00	9B	000AC	6\$:	MOVZBW	EDT\$ST_HDEF_NAM, -	1112	
								HELP_DEFAULT_FILE_NAME_DESC		
10	AE	00000000G	00	9E	000B4		MOVAB	EDT\$ST_HDEF_NAM+1, -	1113	
								HELP_DEFAULT_FILE_NAME_DESC+4		
14	AE		8F	9B	000BC		MOVZBW	#255, RESULT_DESC	1117	
18	AE		24	AE	9E	000C1	MOVAB	PARSE_HNAM, RESULT_DESC+4	1118	
			08	AE	D4	000C6	CLRL	RESULT_LEN	1119	
			08	AE	9F	000C9	PUSHAB	RESULT_LEN	1124	
			18	AE	9F	000CC	PUSHAB	RESULT_DESC		
			7E	D4	000CF		CLRL	-(SP)		
			18	AE	9F	000D1	PUSHAB	HELP_DEFAULT_FILE_NAME_DESC		
			7E	D4	000D4		CLRL	-(SP)		
			30	AE	9F	000D6	PUSHAB	HELP_DESC		
			57	DD	000D9		PUSHL	R7		
00000000G	00		07	FB	000DB		CALLS	#7, LBR\$OPEN		
	3C		50	E8	000E2		BLBS	R0, 10\$		
			66	D4	000E5		CLRL	EDT\$SG_HELP_SET	1128	
		00000000G	8F	DD	000E7		PUSHL	#EDT\$ NOHLPVL	1129	
	68		01	FB	000ED		CALLS	#1, EDT\$FMT_MSG		
		00000000G	8F	DD	000F0		PUSHL	#EDT\$ FILNAM	1130	
00000000G	00		01	FB	000F6		CALLS	#1, EDT\$MSG_TOSTR		
			08	AE	D5	000FD	TSTL	RESULT_LEN	1132	
			09	12	00100		BNEQ	7\$		
	7E		1C	AE	3C	00102	MOVZWL	HELP_DESC, -(SP)	1134	
			24	AE	DD	00106	PUSHL	HELP_DESC+4		
			06	11	00109		BRB	8\$		
			08	AE	DD	0010B	7\$:	PUSHL	RESULT_LEN	1136
			1C	AE	DD	0010E		PUSHL	RESULT_DESC+4	
00000000G	00		02	FB	00111	8\$:	CALLS	#2, EDT\$FMT_STR		
00000000G	00		00	FB	00118		CALLS	#0, EDT\$OUT_FMTBUF	1138	
			19	11	0011F	9\$:	BRB	11\$	1139	
			01	D0	00121	10\$:	MOVL	#1, EDT\$SG_HELP_SET	1142	
00000000G	00		01	D0	00124		MOVC3	RESULT_LEN, PARSE_HNAM, EDT\$ST_HELP_NAM	1146	
	24		08	AE	D0	0012E	MOVL	RESULT_LEN, EDT\$SG_HELP_NAMLEN	1147	
00000000G	00		01	D0	00136		MOVL	#1, R0	1148	
			04	04	00139		RET			
			50	D4	0013A	11\$:	CLRL	R0	1149	
			04	04	0013C		RET			

EDT\$HELP
V04-000

EDT\$HELP - process the HELP commands
EDT\$\$SET_HLPFNAM - set help library name

8 9
16-Sep-1984 00:31:46
14-Sep-1984 12:23:16

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]HELP.B32;1

Page 16
(5)

; Routine Size: 317 bytes, Routine Base: _EDT\$CODE + 0196

; 553 1150 1
; 554 1151 1 !<BLF/PAGE>

EDT
V04

EDT\$HELP
V04-000

EDT\$HELP - process the HELP commands
EDT\$\$SET_HLPFNAM - set help library name

C 9
16-Sep-1984 00:31:46
14-Sep-1984 12:23:16

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]HELP.B32;1

Page 17
(6)

: 556
: 557
: 558
1152 1 END
1153 1
1154 0 ELUDOM

! of module EDT\$HELP

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
EDT\$DATA	8	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
EDT\$CODE	723	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	2	0	40	00:00.2
\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	10	0	581	00:03.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:HELP/OBJ=OBJ\$:HELP MSRC\$:HELP.B32/UPDATE=(ENH\$:HELP)

: Size: 719 code + 12 data bytes
: Run Time: 00:37.3
: Elapsed Time: 00:47.3
: Lines/CPU Min: 1855
: Lexemes/CPU-Min: 8244
: Memory Used: 160 pages
: Compilation Complete

0134 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

0134	0135	0136	0137	0138	0139	0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194	0195	0196	0197	0198	0199																																		
0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255	0256	0257	0258	0259	0260	0261	0262	0263	0264	0265	0266	0267	0268	0269	0270	0271	0272	0273	0274	0275	0276	0277	0278	0279	0280	0281	0282	0283	0284	0285	0286	0287	0288	0289	0290	0291	0292	0293	0294	0295	0296	0297	0298	0299
0300	0301	0302	0303	0304	0305	0306	0307	0308	0309	0310	0311	0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323	0324	0325	0326	0327	0328	0329	0330	0331	0332	0333	0334	0335	0336	0337	0338	0339	0340	0341	0342	0343	0344	0345	0346	0347	0348	0349	0350	0351	0352	0353	0354	0355	0356	0357	0358	0359	0360	0361	0362	0363	0364	0365	0366	0367	0368	0369	0370	0371	0372	0373	0374	0375	0376	0377	0378	0379	0380	0381	0382	0383	0384	0385	0386	0387	0388	0389	0390	0391	0392	0393	0394	0395	0396	0397	0398	0399
0400	0401	0402	0403	0404	0405	0406	0407	0408	0409	0410	0411	0412	0413	0414	0415	0416	0417	0418	0419	0420	0421	0422	0423	0424	0425	0426	0427	0428	0429	0430	0431	0432	0433	0434	0435	0436	0437	0438	0439	0440	0441	0442	0443	0444	0445	0446	0447	0448	0449	0450	0451	0452	0453	0454	0455	0456	0457	0458	0459	0460	0461	0462	0463	0464	0465	0466	0467	0468	0469	0470	0471	0472	0473	0474	0475	0476	0477	0478	0479	0480	0481	0482	0483	0484	0485	0486	0487	0488	0489	0490	0491	0492	0493	0494	0495	0496	0497	0498	0499
0500	0501	0502	0503	0504	0505	0506	0507	0508	0509	0510	0511	0512	0513	0514	0515	0516	0517	0518	0519	0520	0521	0522	0523	0524	0525	0526	0527	0528	0529	0530	0531	0532	0533	0534	0535	0536	0537	0538	0539	0540	0541	0542	0543	0544	0545	0546	0547	0548	0549	0550	0551	0552	0553	0554	0555	0556	0557	0558	0559	0560	0561	0562	0563	0564	0565	0566	0567	0568	0569	0570	0571	0572	0573	0574	0575	0576	0577	0578	0579	0580	0581	0582	0583	0584	0585	0586	0587	0588	0589	0590	0591	0592	0593	0594	0595	0596	0597	0598	0599
0600	0601	0602	0603	0604	0605	0606	0607	0608	0609	0610	0611	0612	0613	0614	0615	0616	0617	0618	0619	0620	0621	0622	0623	0624	0625	0626	0627	0628	0629	0630	0631	0632	0633	0634	0635	0636	0637	0638	0639	0640	0641	0642	0643	0644	0645	0646	0647	0648	0649	0650	0651	0652	0653	0654	0655	0656	0657	0658	0659	0660	0661	0662	0663	0664	0665	0666	0667	0668	0669	0670	0671	0672	0673	0674	0675	0676	0677	0678	0679	0680	0681	0682	0683	0684	0685	0686	0687	0688	0689	0690	0691	0692	0693	0694	0695	0696	0697	0698	0699
0700	0701	0702	0703	0704	0705	0706	0707	0708	0709	0710	0711	0712	0713	0714	0715	0716	0717	0718	0719	0720	0721	0722	0723	0724	0725	0726	0727	0728	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	0753	0754	0755	0756	0757	0758	0759	0760	0761	0762	0763	0764	0765	0766	0767	0768	0769	0770	0771	0772	0773	0774	0775	0776	0777	0778	0779	0780	0781	0782	0783	0784	0785	0786	0787	0788	0789	0790	0791	0792	0793	0794	0795	0796	0797	0798	0799
0800	0801	0802	0803	0804	0805	0806	0807	0808	0809	0810	0811	0812	0813	0814	0815	0816	0817	0818	0819	0820	0821	0822	0823	0824	0825	0826	0827	0828	0829	0830	0831	0832	0833	0834	0835	0836	0837	0838	0839	0840	0841	0842	0843	0844	0845	0846	0847	0848	0849	0850	0851	0852	0853	0854	0855	0856	0857	0858	0859	0860	0861	0862	0863	0864	0865	0866	0867	0868	0869	0870	0871	0872	0873	0874	0875	0876	0877	0878	0879	0880	0881	0882	0883	0884	0885	0886	0887	0888	0889	0890	0891	0892	0893	0894	0895	0896	0897	0898	0899
0900	0901	0902	0903	0904	0905	0906	0907	0908	0909	0910	0911	0912	0913	0914	0915	0916	0917	0918	0919	0920	0921	0922	0923	0924	0925	0926	0927	0928	0929	0930	0931	0932	0933	0934	0935	0936	0937	0938	0939	0940	0941	0942	0943	0944	0945	0946	0947	0948	0949	0950	0951	0952	0953	0954	0955	0956	0957	0958	0959	0960	0961	0962	0963	0964	0965	0966	0967	0968	0969	0970	0971	0972	0973	0974	0975	0976	0977	0978	0979	0980	0981	0982	0983	0984	0985	0986	0987	0988	0989	0990	0991	0992	0993	0994	0995	0996	0997	0998	0999